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Printed: Nancy Ramos

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: LaBrie et al.

Title: NOVEL HUMAN TUBBY HOMOLOG

Serial No.: To Be Assigned Filing Date: Herewith

Examiner: To Be Assigned Group Art Unit: To Be Assigned

**Official Draftsman**

Commissioner for Patents

Washington, D.C. 20231

### SUBMISSION OF FORMAL DRAWINGS

Sir:

Transmitted herewith are Figure(s) 1A, 1B, 1C, 1D, 2A, 2B, 3A, 3B, as eight (8) sheets of formal drawings for this application. Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawings.

Applicants believe that no fee is due with this paper. However, if the Commissioner determines that a fee is necessary, the Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. **09-0108**. A duplicate copy of this communication is enclosed.

If there are any questions regarding the above, the Examiner is invited to call the undersigned at 650-855-0555.

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5'	NGC	ACG	AGG	TGG	GGG	CTT	TCC	TCG	GTC	GCG	GGC	ATG	GAG	GCT	TCG	CGC	TGC	CGG
L	S	P	S	G	D	S	V	F	H	E	E	M	M	K	M	R	C	R
63	72	72	72	72	81	81	81	81	81	90	90	99	99	99	99	99	99	54
CTC	AGT	CCC	AGC	GGC	GAC	AGT	GTC	TTC	CAT	GAA	GAA	ATG	ATG	AAG	ATG	CGA	CAG	
A	K	L	D	Y	Q	R	L	L	L	E	K	R	Q	R	K	K	R	Q
117	126	126	126	126	135	135	135	135	144	144	144	153	153	153	153	153	153	108
GCT	AAG	CTG	GAT	TAT	CAG	AGG	CTA	CTA	CTT	GAG	AAG	AGG	CAA	AGG	AAA	AAG	CGC	
L	E	P	F	M	V	Q	P	N	P	E	A	R	L	R	K	K	R	162
171	180	180	180	180	189	189	189	189	198	198	198	207	207	207	207	207	207	216
CTT	GAG	CCA	TTT	ATG	GTG	CAG	CCC	AAT	CCA	GAA	GCC	AGG	CTA	CGT	CGG	GCA	AAG	
L	E	P	F	M	V	Q	P	N	P	E	A	R	L	R	R	A	K	
225	234	234	234	234	243	243	243	243	252	252	252	261	261	261	261	261	261	270
CCA	AGG	GCC	AGT	GAT	GAG	CAG	ACT	CCC	TTG	GTG	AAC	TGT	CAT	ACT	CCC	CAC	AGC	
P	R	A	S	D	E	Q	T	P	L	V	N	C	H	T	P	H	S	
279	288	288	288	288	297	297	297	297	306	306	306	315	315	315	315	315	315	324
AAT	GTC	ATC	TTA	CAT	GGT	ATT	GAT	GGT	CCA	GCT	GCT	GTC	CTG	AAA	CCA	GAC	GAA	
N	V	I	L	H	G	I	D	G	P	A	A	V	L	K	P	D	E	
333	342	342	342	342	351	351	351	351	360	360	360	369	369	369	369	369	369	378
GTT	CAT	GCT	CCA	TCA	GTA	AGC	TCC	TCT	GTT	GTG	GAA	GAA	GAT	GCT	GAA	AAC	ACC	
V	H	A	P	S	V	S	S	S	V	V	E	E	D	A	E	N	T	

FIGURE 1A

387		396		405		414		423		432				
GTG	GAT	ACT	GCT	TCC	AAG	CCA	GGA	CTT	CAG	GAG	CGT	CTC	CAA	AAG
V	D	T	A	S	K	P	G	L	Q	E	R	L	Q	K
												H	D	I
441		450		459		468		477		486				
TCT	GAA	AGT	GTG	AAC	TTC	GAT	GAG	GAG	ACT	GAT	GGA	ATA	TCC	CAG
S	E	S	V	N	F	D	E	E	T	D	G	I	S	Q
												S	A	C
495		504		513		522		531		540				
TTA	GAA	AGA	CCC	AAT	TCT	GCA	TCA	AGC	CAG	AAT	TCA	ACC	GAT	ACA
L	E	R	P	N	S	A	S	S	Q	N	S	T	D	T
												G	T	S
549		558		567		576		585		594				
GGT	TCT	GCT	ACT	GCC	GCC	CAA	CCA	GCT	GAT	AAC	CTC	CTG	GGA	GAC
G	S	A	T	A	Q	P	A	D	N	L	L	G	D	I
												D	T	D
603		612		621		630		639		648				
CTG	GAG	GAC	TTT	GTG	TAT	AGT	CCT	GCC	CCT	CAA	GGT	GTC	ACA	GTA
L	E	D	F	V	Y	S	P	A	P	Q	G	V	T	V
												R	C	R
657		666		675		684		693		702				
ATA	ATC	CGG	GAT	AAA	AGG	GGA	ATG	GAT	CGG	GGT	CTC	TTC	CCC	ACC
I	I	R	D	K	R	G	M	D	R	G	L	F	P	T
												Y	Y	M
711		720		729		738		747		756				
TAC	TTG	GAA	AAA	GAA	AAT	CAG	AAG	ATA	TTT	CTT	GCA	GCT	AGA	AAG
Y	L	E	K	E	N	Q	K	I	F	L	L	A	A	R
												K	K	R

FIGURE 1B

		765	774	783	792	801	810
A	AAG	AGC	AAA	ACA	GCC	AAC	TAC
K	K	S	K	T	A	N	Y
R	E	G	E	S	Y	V	G
F	T	V	Y	D	R	G	I
		819	828	837	846	855	864
CGT	GAA	GGA	GAA	AGT	TAT	GTC	GGC
R	E	G	E	S	Y	V	G
T	T	V	Y	D	R	G	I
		873	882	891	900	909	918
TTT	ACA	GTT	TAT	GAC	CGT	GGC	ATC
F	T	V	Y	D	R	G	I
		927	936	945	954	963	972
GGG	GCC	CAC	ACC	CGG	CAG	GAG	CTG
A	A	H	T	R	Q	E	L
G	F	K	G	P	R	M	S
		981	990	999	1008	1017	1026
GGA	TTT	AAA	GGT	CCT	AGG	AAA	ATG
G	F	K	G	P	R	M	S
		1035	1044	1053	1062	1071	1080
CAT	AAG	CAG	ATC	CCC	TAT	CAG	CCA
H	K	Q	I	P	Y	Q	P
		1089	1098	1107	1116	1125	1134
TGG	CAG	AAC	AGA	ACT	ATG	GAA	AAT
W	Q	N	R	T	M	E	N

FIGURE 1C

3 8

W	N	S	D	T	Q	S	Y	V	L	N	F	R	G	R	V	T	Q	
1143	TGG	AAC	AGT	GAC	ACT	CAG	TCC	TAT	GTC	CTC	AAC	TTC	CGT	GGC	CGG	GTC	ACT	CAG
1152	W	N	S	D	T	Q	S	Y	V	L	N	F	R	G	R	V	T	Q
1188	1179	1170	1161	1152	1143	1132	1121	1112	1103	1094	1085	1076	1067	1058	1049	1040	1031	1022
1197	GCG	TCT	GTG	AAG	AAC	TTC	CAG	ATA	GTC	CAC	AAA	AAT	GAC	CCT	GAT	TAT	ATA	GTC
1206	A	S	V	K	N	F	Q	I	V	H	K	N	D	P	D	Y	I	V
1242	1233	1224	1215	1206	1197	1188	1179	1170	1161	1152	1143	1132	1121	1112	1103	1094	1085	1076
1251	ATG	CAG	TTT	GGA	CGT	GTG	GCA	GAT	GAC	GTG	TTC	ACA	CTG	GAT	TAC	AAC	TAC	CCA
1260	M	Q	F	G	R	V	A	D	D	V	F	T	L	D	Y	N	Y	P
1278	1287	1278	1269	1260	1251	1242	1233	1224	1215	1206	1197	1188	1179	1170	1161	1152	1143	1132
1305	CTT	TGT	GCA	GTA	CAG	GCC	TTT	GGC	ATC	GGT	CTT	TCT	AGC	TTT	GAC	AAA	CGT	ATC
1314	L	C	A	V	Q	A	F	G	I	G	L	S	S	F	D	K	R	I
1350	1332	1323	1314	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305	1305
1359	CAA	ACC	TTG	AGA	ATG	CAG	GAG	CTC	TGT	GAG	CTC	CAC	CGT	CAG	CAC	CAT	TCA	GCT
1368	Q	T	L	R	M	Q	E	L	C	E	L	H	R	Q	H	H	S	A
1404	1386	1377	1368	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359	1359
1413	GCA	TCC	CTT	GTG	CAC	AGG	ACT	GCC	TGC	CAG	CGT	TGG	GTG	GGA	CAC	CCG	TGG	CGG
1422	A	S	L	V	H	R	T	A	C	Q	R	W	V	G	H	P	W	R
1458	1449	1440	1431	1422	1413	1413	1413	1413	1413	1413	1413	1413	1413	1413	1413	1413	1413	1413
1467	CAG	CTC	CCT	CAG	TCT	TCC	CTT	GTC	GGC	CCT	GAC	CTN	TNA	CTA	CAT	ATG	TAG	NAG
1485	Q	L	P	Q	S	S	L	V	G	P	D	L	X	L	H	M	1521	CCC
1503	1503	1494	1485	1467	1467	1467	1467	1467	1467	1467	1467	1467	1467	1467	1467	1467	1467	1467
1512	1512	1512	1512	1512	1512	1512	1512	1512	1512	1512	1512	1512	1512	1512	1512	1512	1512	1512

5  
S  
D

FIGURE 1D

1	M E A S R C R L S P S G D S V F H E E M M K M R Q A K L D Y Q R L L E K R Q R	492199
1	M - T S K P H S D W I P Y S V L D D E G S N L R Q Q K L D R Q R A L L E Q K Q K	GI 1279766
1	M - T S K P H S D W I P Y S V L D D E G R N L R Q Q K L D R Q R A L L E Q K Q K	GI 1305497
41	K K R L E P F M V Q P N P E A R L R R A K P R A S D E Q T P L V N C H T P H S -	492199
40	K K R Q E P L M V Q A N A D G R P R S R R A R Q S E E Q A P L V E S Y L S S S G	GI 1279766
40	K K R Q E P L M V Q A N A D G R P R S R R A R Q S E E Q A P L V E S Y L S S S G	GI 1305497
80	- -	492199
80	S T S Y Q V Q E A D S I A S V Q L G A T R P P A P A S A K K S K G A A A S G G Q	GI 1279766
80	S T S Y Q V Q E A D S L A S V Q L G A T R P T A P A S A K R T K A A A T A G G Q	GI 1305497
84	- -	492199
120	H G I D G P A A V L K P D - E V H A P S V S S S V V E E	492199
120	G G A P R K E K G K H K G T S G P A T L A E D K S E A Q G P V Q I L T V G Q S	GI 1279766
120	G G A A R K E K G K H K G T S G P A A L A E D K S E A Q G P V Q I L T V G Q S	GI 1305497
111	D A E N T V D T A S K P G - - - - - - - - - - - - - - - - - - -	492199
160	D H D K D A G E T A A G G G A Q P S G Q D L R A T M Q R K G I S S M S F D E D	GI 1279766
160	D H A Q D A G E T A A G G G E R P S G Q D L R A T M Q R K G I S S M S F D E D	GI 1305497
143	T D G I S O S A C L E - - - - - - - - - - - - - - - - - - -	492199
200	R P N S A S S O N S T D T G T S G S A T A A	492199
200	E - D E D E N S S S S S Q L N S N T R P S A T S R K S I R E A A S A P S P A A	GI 1279766
200	E E D E E N S S S S S Q L N S N T R P S S A T S R K S V R E A A S A P S P T A A	GI 1305497
176	O P A D N L L G D I D D L E D F V Y S P A P Q G V T V R C R I I R D K R G M D R	492199
239	- P E P P V D I E V Q D L E E F A L R P A P Q G I T I K C R I T R D K K G M D R	GI 1279766
240	- P E Q P V D V E V Q D L E E F A L R P A P Q G I T I K C R I T R D K K G M D R	GI 1305497

51  
e  
∞

FIGURE 2A

216	G L F P T Y Y M Y L E K E E N Q K I F L L A A R K R K K S K T A N Y L I S I D P	492199
278	G M Y P T Y F L H L D R E D G K K V F L L A G R K R K K S K T S N Y L I S V D P	GI 1279766
279	G M Y P T Y F L H L D R E D G K K V F L L A G R K R K K S K T S N Y L I S V D P	GI 1305497
256	V D L S R E G E S Y V G K L R S N L M G T K F T V Y D R G I C P M K G R C - L V	492199
318	T D L S R G C D S Y I G K L R S N L M G T K F T V Y D N G V N P Q K A S S S T L	GI 1279766
319	T D L S R G G D S Y I G K L R S N L M G T K F T V Y D N G V N P Q K A S S S T L	GI 1305497
295	G A A H T R Q E L A A I S Y E T N V L G F K G P R K M S V I I P G M T L N H K Q	492199
358	E S G T L R Q E L A A V C Y E T N V L G F K G P R K M S V I V P G M N M V H E R	GI 1279766
359	E S G T L R Q E L A A V C Y E T N V L G F K G P R K M S V I V P G M N M V H E R	GI 1305497
335	I P Y Q P O N N H D S L L S R W Q N R T M E N L V E L H N K A P V W N S D T Q S	492199
398	V C I R P R N E H E T T L A R W Q N K N T E S I I E L Q N K T P V W N D D T Q S	GI 1279766
399	V S I R P R N E H E T T L A R W Q N K N T E S I I E L Q N K T P V W N D D T Q S	GI 1305497
375	Y V L N F R G R V T Q A S V K N F Q I V H K N D P D Y I V M Q F G R V A D D V F	492199
438	Y V L N F H G R V T Q A S V K N F Q I I H G N D P D Y I V M Q F G R V A E D V F	GI 1279766
439	Y V L N F H G R V T Q A S V K N F Q I I H G N D P D Y I V M Q F G R V A E D V F	GI 1305497
415	T L D Y N Y P L C A V Q A F G I G L S S F D K R I Q T L R M Q E L C E L H R Q H	492199
478	T M D Y N Y P L C A L Q A F A I A L S S F D S K L - - - - -	GI 1279766
479	T M D Y N Y P L C A L Q A F A I A L S S F D S K L - - - - -	GI 1305497
455	H S A A S L V H R T A C Q R W V G H P W R Q L P O S S S L V G P D L X L H M	492199
503	- - - - - A C - - - - -	GI 1279766
504	- - - - - A C - - - - -	GI 1305497

FIGURE 2B

6 8

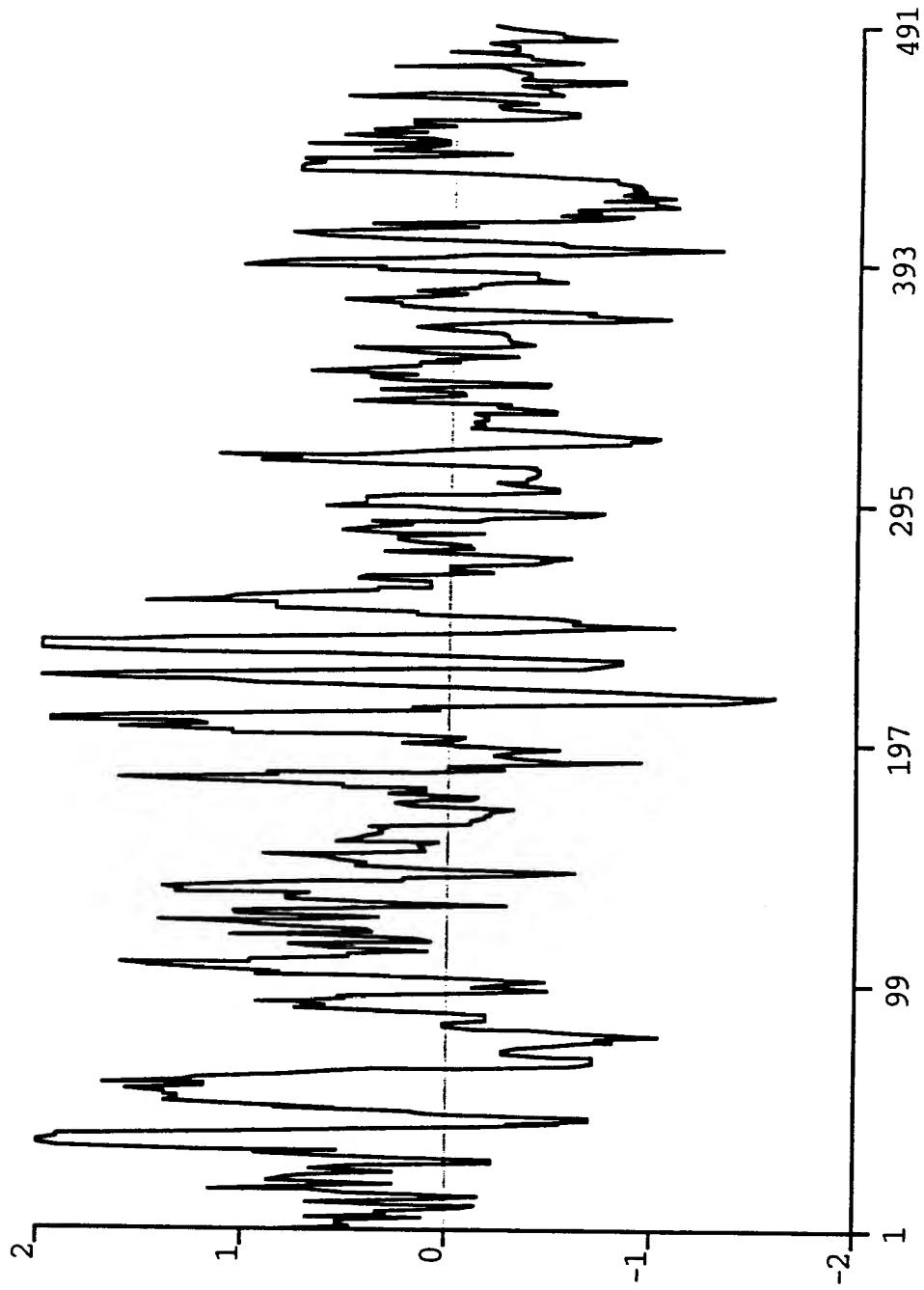


FIGURE 3A

8 8

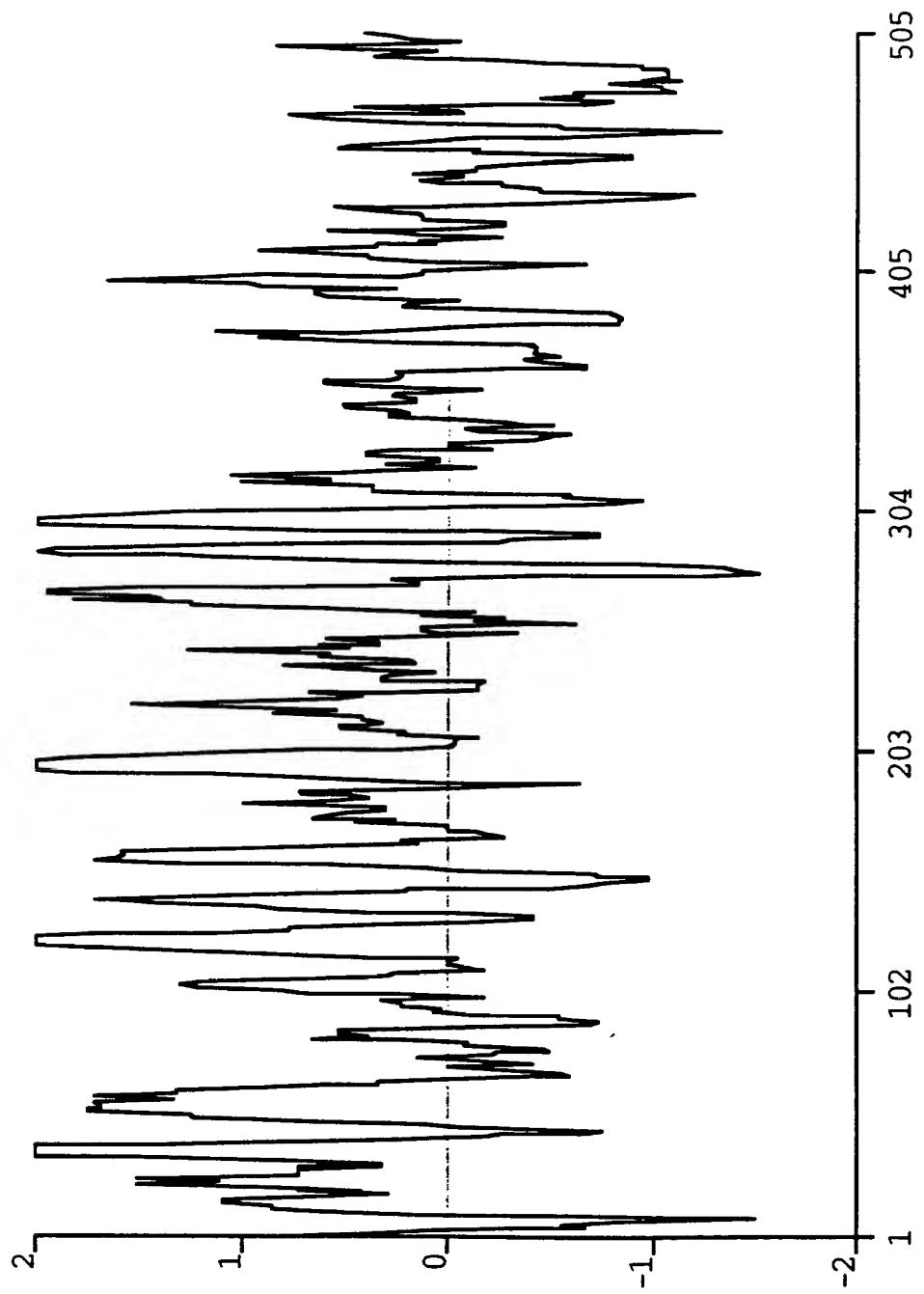


FIGURE 3B